

## Product datasheet for **SC310385**

### CYP2A7 (NM\_030589) Human Untagged Clone

#### Product data:

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|----------------------|--|
| Product Type:        | Expression Plasmids  |
| Product Name:        | CYP2A7 (NM_030589) Human Untagged Clone  |
| Tag:                 | Tag Free   |
| Symbol:              | CYP2A7   |
| Synonyms:            | CPA7; CPAD; CYP2A; CYP11A7; P450-11A4  |
| Vector:              | <u>pCMV6 series</u>  |
| Fully Sequenced ORF: | <p>&gt;NCBI ORF sequence for NM_030589, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGCTGGCCTCAGGGCTGCTTCTGGTGGCCTTGCTGGCCTGCCTGACTGTGATGGTCTTG ATGTCTGTCTGGCAGCAGAGGAAGAGCAGGGGGAAGCTGCCTCCGGGACCCACCCACTG CCCTTCATTGGAACTACCTCCAGCTGAACACAGAGCACATATGTGACTCCATCATGAAG GTGTCCCAAGGCGTGGCGTTCAGCAACGGGGAGCGGCCAAGCAGCTCCTGCGCTTTGCC ATCGCCACCCTGAGGGACTTCGGGGTGGCAAGCGAGGCATCGAGGAGCGCATCCAGGAG GAGTCGGGCTTCCTCATCGAGGCCATCCGGAGCACGCACGGCGCCAATATCGATCCCACC TTCTTCCTGAGCCGCACAGTCTCCAATGTCATCAGCTCCATTGTCTTTGGGGACCGCTTT GACTATGAGGACAAAGAGTTCTGTCACTGCTGAGCATGATGCTAGGAATCTTCCAGTTC ACGTCAACCTCCACGGGGCAGCTCTATGAGATGTTCTCTTCGGTGATGAAACACCTGCCA GGACCACAGCAACAGGCCTTTAAGTTGCTGCAAGGGCTGGAGGACTTCATAGCCAAGAAG GTGGAGCACAACCAGCGCACGCTGGATCCCAATTCACCCACAGGACTTCATCGACTCCTTT CTCATCCACATGCAGGAGGAGGAGAAGAACCCCAACCGGAGTTCTACTTGAAGAACCTG ATGATGAGCACGTTGAACCTCTTCATTGCAGGCACCGAGACGGTCAGCACCACCCTGCGC TATGGCTTCTTGCTGCTCATGAAGCACCCAGAGGTGGAGGCCAAGGTCCATGAGGAGATT GACAGAGTGATCGGCAAGAACCAGGCAAGGCAAGTTTGGAGACCGGACCAAGATGCCCTAC ATGGAGGCAGTGATCCACGAGATCCAAAGATTTGGAGACGTGATCCCCATGAGTTTGCC CGCAGGGTTAAAAAGGACACCAAGTTTCGGGATTTTTCTCCCTAAGGGCACCGAAGTG TTCCCTATGCTGGGCTCCGTGCTGAGAGACCCAGCTTCTTCTCAACCCTCAGGACTTC AATCCCCAGCATTTCTGGATGACAAGGGGCAAGTTTGAAGAAGTGATGCTTTTGTGCC TTTTCCATCGAAAGCGGAAGTGTTCGGAGAAGGCCTGGCCAGAATGGAGCTCTTCTC TTCTTCACCACCGTCATGCAGAACTCCGCCTCAAGTCTCCAGTCACCTAAGGACATT GACGTGTCCCCAAACAGTGGTCTTTGCCACGATCCACGAACTACACCATGAGCTTC CTGCCCCGCTGA </pre> |
| Restriction Sites:   | Please inquire   |
| ACCN:                | NM_030589  |



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|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).   |
| <b>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.   |
| <b>Components:</b>            | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol>  |
| <b>RefSeq:</b>                | <u>NM_030589.2, NP_085079.2</u>  |
| <b>RefSeq Size:</b>           | 2128 bp  |
| <b>RefSeq ORF:</b>            | 1332 bp  |
| <b>Locus ID:</b>              | 1549   |
| <b>UniProt ID:</b>            | <u>P20853</u>  |
| <b>Cytogenetics:</b>          | 19q13.2  |
| <b>Domains:</b>               | p450   |
| <b>Protein Families:</b>      | Druggable Genome, P450, Transmembrane  |
| <b>Protein Pathways:</b>      | Caffeine metabolism, Drug metabolism - cytochrome P450, Drug metabolism - other enzymes, Metabolic pathways, Retinol metabolism  |
| <b>Gene Summary:</b>          | <p>This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum; its substrate has not yet been determined. This gene, which produces two transcript variants, is part of a large cluster of cytochrome P450 genes from the CYP2A, CYP2B and CYP2F subfamilies on chromosome 19q. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2, also known as CYP2A7AS) lacks exon 2 within the coding region and includes 10 nt from intron 1, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. This variant lacks publicly available transcript support but it is supported by data in PubMedID:7864805.</p> |